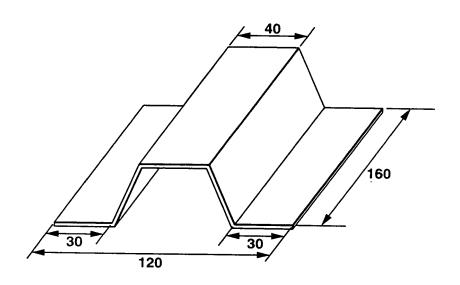
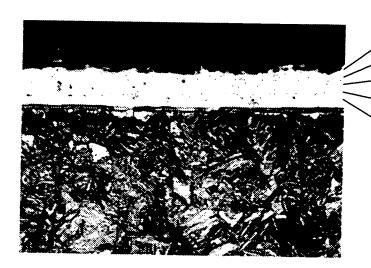
Title: ALUMINUM-COATED STRUCTURAL MEMBER AND PRODUCTION METHOD Inventor(s): Kiyoshi TAKAGI et al. DOCKET NO.: 023971-0284

FIG.1



Title: ALUMINUM-COATED STRUCTURAL MEMBER AND PRODUCTION METHOD Inventor(s): Kiyoshi TAKAGI et al. DOCKET NO.: 023971-0284

## FIG.2A



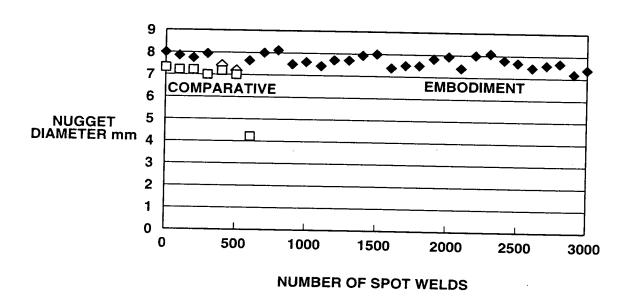
OUTER LAYER
INTERMEDIATE LAYER 1
INTERMEDIATE LAYER 2
INTERMEDIATE LAYER 3
INNER LAYER

FIG.2B



Title: ALUMINUM-COATED STRUCTURAL MEMBER AND PRODUCTION METHOD Inventor(s): Kiyoshi TAKAGI et al. DOCKET NO.: 023971-0284

FIG.3



<u> 1</u>G.4

STRUCTURAL MEMBER AND PRODUCTION METHOD Inventor(s): Kiyoshi TAKAGI et al. DOCKET NO.: 023971-0284																					
WELDABILITY			0			0				×			0				0				
CORROSION			0			0				×				0				0			
FORMABILITY			0			×				0				0			0				
OXIDE WEIGHT (mg/dm²)			300			275				550				385			335				
Æ.	SOFTER RANGE	2	51				22				78				59			56			
COATING LAYER HARDNESS (Hv)	SOFTEST AVERAGE		415				455				385				400			410			
			310			380				305			280			300					
STEEL BASE	STEEL BASE HARDNESS (Hv)		450			415				400			440				440				
	OUTER	54.8	0.8	4	+	54.9	0.8	44.1	810	11.6	1.8	85.7	410	47.4	2.2	49.8	800	54.5	6.8	38.4	810
URE	INTER 0	31.6	5.7	62.0	8		1		ı		ı		1	30.4	5.3	9	069		1		ı
COATING LAYER STRUCTU & COMPOSITION (%)	INTER 2	48.4	1.2	50.1	750	31.6	5.7	6.19	720		1		ı	51.9	9.0	46.8	720	33.4	15.3	51.4	700
LAYER	INTER	31.0	3.9	62.9	360	48.4	1.2	50.1	260		1		ı	27.8	4.3	2.99	340	3.2 54.5	2.5	42.7 51.4	740
DATING & CO	INNER	7.7	2.0	9.68	310	27.2	4.1	67.2	380	9.4	1.3	88.4	305	6.0	1.5	90.7	280	3.2	0.4	94.3	300
Ö	COMPONENT & HARDNESS	ΑI	Si	Fe	H.	AI	Si	Fe	Ηv	ΑI	Si	Fe	H	A	Si	Fe	H۷	AI	Si	Fe	Ηv
CTION	HOLD TIME (min.)		က				7				0			r.				!	4		
PRODUCTION	TEMPERATURE HOLD TIME COMPONENT (°C) (min.) & HARDNESS	920				006				930				950					006		
2	2		-			74				က				4				ហ			

Title: ALUMINUM-COATED STRUCTURAL MEMBER AND

Title: ALUMINUM-COATED STRUCTURAL MEMBER AND PRODUCTION METHOD Inventor(s): Kiyoshi TAKAGI et al. DOCKET NO.: 023971-0284

## FIG.5

## **TABLE 2**

- AULL Z											
HEATING TEMPERATURE	HOLDING	OXIDE	ADHESION								
(°C)	TIME (min.)	WEIGHT (mg/dm²)	PIN HOLE	CROSS CUT TEST							
	3	290	NONE	0							
	5	385	NONE	0							
	10	540	PRODUCED	×							
950	15	690	PRODUCED	×							
	20	760	PRODUCED	×							
	25	790	PRODUCED	×							
	30	805	PRODUCED	X							